

ENGINEERING TEXAS A&M UNIVERSITY

Introduction Edge convergence?

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About me

Education

COMPUTER SCIENCE

TEXAS A&M UNIVERSITY

& ENGINEERING

BS 1986 USP-Brazil / MS 1990 USP/ Ph.D. 1997 Georgia Tech

Professional (Academia → Industry → Academia)

- Professor at USP-Brazil 1996-2000 (tenure 2000)
- Research Scientist at IBM TJ Watson 2000-2012
 Manager since 2007; several other leadership roles
- Principal Engineer & Manager, Qualcomm Research (2012-2014)
- Professor and Department Head, Texas A&M University
 On my way out of administration ⁽²⁾

Research Community Service

- Steering Committees (SOSP, HotCloud, IEEE IC2E, IEEE IoTDI)
- Board of CRA-W
 URMD Grad Cohort, DSW, DLS, Travel Grants
- Co-founder of Latinas in Computing



Do loT workloads introduce new opportunities for convergence?

- Smart grid
- Smart manufacturing
- Smart city
- Smart road integrated with autonomous vehicles

So far not very "smart", and IoT part is relatively simple



- What should the edge platform look like?
- Service placement on edge computing
- Lessons/bias from previous projects:
 - dynamic update of services

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- storage can't be afterthought
- killer app needs to show efficiency gain that pays for the impact on problem determination
- Veracity / velocity of data production may mandate new level of convergence